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To:

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U.S. Patent and Trademark Office ATTN: CENTRALIZED FAX CENTER, MS AF	(571) 273-8300	(571) 272-4105

FROM: Peter Yim  
Reg. No. 44,417

DATE: October 11, 2006

Number of pages with cover page:	8	
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**Comments:****PLEASE PROCESS THE ATTACHED.**

Re: U.S. Patent Application No. 10/608,300  
For: OPTICAL METROLOGY OF STRUCTURES  
FORMED ON SEMICONDUCTOR WAFERS USING  
MACHINE LEARNING SYSTEMS  
By: Srinivas DODDI et al.  
Our reference: 50998-20055.00

Attached is the following:

1. Transmittal (1 Page)
2. Amendment Under 37 CFR 1.116 (6 pages)

sf-2084183

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PTO/SB/21 (09-04)

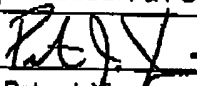
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TRANSMITTAL FORM		Application Number	
(to be used for all correspondence after initial filing)		10/808,300	
Total Number of Pages in This Submission		Filing Date	
7		June 27, 2003	
		First Named Inventor	
		Srinivas DODDI	
		Art Unit	
		2121	
		Examiner Name	
		N. Brown	
		Attorney Docket Number	
		509982005500	

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance Communication to TC
<input type="checkbox"/> Fee Attached	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment/Reply (8 pages)	<input type="checkbox"/> Petition	<input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)
<input checked="" type="checkbox"/> After Final	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Terminal Disclaimer	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Request for Refund	Facsimile Cover Sheet (not counted as part of this submission)
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> Landscape Table on CD	
<input type="checkbox"/> Reply to Missing Parts/Incomplete Application	Remarks	
<input type="checkbox"/> Reply to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT			
Firm Name	MORRISON & FOERSTER LLP (Customer No. 20872)		
Signature			
Printed name	Peter J. Yim		
Date	October 11, 2006	Reg. No.	44,417

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Dated: October 11, 2006

Signature:  (Valerie Cohen)

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Dated: October 11, 2006

Signature: Valerie Cohen  
(Valerie Cohen)

Docket No.: 509982005500  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Srinivas DODDI et al.

Application No.: 10/608,300

Filed: June 27, 2003

Art Unit: 2121

For: OPTICAL METROLOGY OF STRUCTURES  
FORMED ON SEMICONDUCTOR WAFERS  
USING MACHINE LEARNING SYSTEMS

Examiner: N. Brown

**AMENDMENT UNDER 37 C.F.R. 1.116**

MS AF  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

This is in response to the final Office Action dated August 11, 2006, 2006, (Part of Paper No./Mail Date 20060808), for which a response is due on November 11, 2006. Accordingly, this response is timely filed. Additionally, this response is filed within two months of the mailing date of the Final Office Action and therefore qualifies for expedited review. Reconsideration and allowance of the pending claims, as amended, in light of the remarks presented herein are respectfully requested.

sf-2180524